LMA District Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 1660 Tisdale

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating.
FALL INSPECTIONS: The overall maintena	d using the same crite ance rating shown abo	ria in the spring and in ve is based on operati	the fall. on and maintenance de	ficiencies identified
within the attached u	nit inspection reports.	This rating is not inte	nded to be an indiction of	of risk.
Comments				

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Left	3.00

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/17/2014 - 04/17/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Andy Duffey			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	04/17/2014 04/17/2014	Bob Duffey

LM Start		Rating **	Α	Issue No.		14	
LM End		Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
		s & Maintena	nce		0		0
item	Manuals				0		0
DWR ID	DWR_RD1	660_01_s _ 201	3_14				
Action/Comments							

No Photos

LM Start		Rating **	Α	Issue No.		15	
LM End		Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Emergency Supplies &				0		0
пеш	Equipmer	nt			0		0
DWR ID	DWR_RD1	660_01_s _ 201	3_15				
Action/Comments							

No Photos

LM Start		Rating **	Α	Issue No.		16	
LM End		Issue Type +	Ма	Location *		LS	
Category	Earthen L	then Levee			atitud	le/Longitude	
Category				Start		End	
Item	Flood Pre	paredness &	paredness & Training				0
пеш					0		0
DWR ID	DWR_RD1	660_01_s _ 201	3_16				
		Action/	Commer	nts			

No Photos

* Location LS : Land Side WS: Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	04/17/2014 04/17/2014	Bob Duffey

LM Start	0.05	Rating **	М	Issue No.		12
LM End	0.05	Issue Type +	En	Location *		LS
Category Earthen Levee				GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Encroachments			39.0626	43 °	39.062643 °
пеш				-121.8378	57 °	-121.837857 °
DWR ID	DWR_RD1	660_01_s _ 201	2_12			
Action/Comments						
Building						



View of the building and fence at the landside toe.

LM Start	0.14	Rating **	М	Issue No.		176	
LM End	0.14	Issue Type +	En	n Location *		LS	
Category	Suppleme	ental	GPS Lati	e/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		39.061322	0	39.061322	0
пеш				-121.837993	°	-121.837993	0
DWR ID	DWR_RD1	660_01_s _ 201	4_176				

Action/Comments

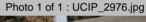
Inspector Comments: FS_ID:22503

EP_NO: N/A Repair Type: Crossing Status:

UCIP Comments: - needs proper abandonment.opening of landside pipe almost burried.USACE bench mark on top of headwall at landside levee toe.

FIELD_STRUCT_DESC: Abandoned 24-inch pipe through levee, 16.4 feet below crown. Slide gate in concrete well at toe of waterward slope. (IV A-Winship). O&M Manual SAC 133, August 1955.

FS Date: 10/10/2013





WS view: two slide gates in concrete box on levee slope.

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	04/17/2014 04/17/2014	Bob Duffey

LM Start	1.12	Rating **	М	Issue No.	9	
LM End	1.43	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS La	titud	le/Longitude
Category				Start		End
Item	Encroach	Encroachments			10°	39.043622 °
пеш				-121.8388	02 °	-121.836445 °
DWR ID	DWR_RD1	660_01_s _ 201	2_9			
	Action/Comments					
Ditch						



View of the ag ditch along the L/S toe.

LM Start	1.27	Rating **	М	Issue No.	8		
LM End	1.37	Issue Type +	Ма	Location *	WS		
Category	Suppleme	Supplemental			GPS Latitude/Longitude		
Calegory		Start			End		
Item	USACE E	rosion Survey	,	39.04436	61 °	39.043916 °	
пеш				-121.83765	64 °	-121.837305 °	
DWR ID							
		A ation /	Camma	nt n			

Action/Comments

Inspector Comments: 2009 - Erosion on levee toe where an old cobble site is failing. 2011 - Some new minor erosion. 2012 - Site extended downstream, bank is being impacted from the weight of the trees. 2013: Minor new erosion at the toe. [2013 Site ID: SAC_120-6_L]



USACE 2013 Photo #1

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	04/17/2014 04/17/2014	Bob Duffey

LM Start	1.56	Rating **	М	Issue No.		177	
LM End	1.56	Issue Type +	En	Location *	WS		
Category				GPS Latitude/Longitude			
Category		Start		End			
Item	DWR UC	IP Field Study		39.04230	4 °	39.042304	۰
пеш				-121.83478	3°	-121.834783	٥
DWR ID	DWR_RD1	660_01_s _ 201	4_177				

Action/Comments

Inspector Comments: FS_ID:22543

EP_NO: 16476 Repair Type: Crossing Status:

UCIP Comments: - 16-inch old steel pipe abandoned. Abandoned pipe found on landside levee toe.abandoned power pole on waterside. mobile diesel pump on channel bank.attached tin pipes exposed on levee surface.

FIELD_STRUCT_DESC: 14-inch steel pipe through the levee crown, the placement of two 12-inch diameter tin pipes on the surface of the levee slopes attached to the existing 14-inch steel pipe. The pipe discharges into irrigation ditch on landside. An air vent on landside shoulder. (App. No. 16476 - Ettl, 1997).

FS Date: 10/10/2013



WS view: two exposed 12" tin pipes on levee slope. These pipes connected to the pump on river bank.

LM Start	2.04	Rating **	М	Issue No.	1		
LM End	2.38	Issue Type +	En	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start End			
Item	Encroachments			39.037640 °		39.034416 °	
пеш					21 °	-121.825698 °	
DWR ID	DWR_RD1	660_01_s _ 201	12_1				
Action/Comments							
Ditch							



View of the large ditch along the landside toe.

* Location
LS: Land Side
WS: Water Side
CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected vW : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

or & Maintain En : Enforcement

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	04/17/2014 04/17/2014	Bob Duffey

LM Start	2.42	Rating **	М	Issue No.	2	
LM End	2.42	Issue Type +	Ma	Location *	LS	
Category Earthen Levee				GPS Latitude/Longitude		
Calegory			Start		End	
Item	Slope Stability			39.034107 °		39.034107 °
пеш				-121.82515	52 °	-121.825152 °
DWR ID	DWR_RD1	660_01_s _ 201	2_2			
Action/Comments						
Repair slope instability.						

No Photos

LM Start	2.44	Rating **	М	Issue No.		4	
LM End	2.44	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	titud	le/Longitude	
Calegory				Start		End	
Item	Slope Stability		39.033858 °		39.033858	0	
пеш				-121.8249	85 °	-121.824985	0
DWR ID	DWR_RD1	660_01_s _ 201	2_4				
		Action/	Comme	nts			
Repair slop	pe instabili	ty.					

No Photos

LM Start	2.62	Rating **	A/W	Issue No.		10	
LM End	2.62	Issue Type +	En	Location *	LS		
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End			
Item	Animal Control			39.03152	20 °	39.031520 °	
пеш				-121.82342	20 °	-121.823420 °	
DWR ID	DWR_RD1	660_01_s _ 201	2_10				
Action/Comments							
No rodents	s visible, b	ut rodent burr	ows visib	ole; need to	bac	kfill and	

compact or grout burrows.



View of rodent holes along the L/S slope.

Rating

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M : Minimally Acceptable
U : Unacceptable

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Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	04/17/2014 04/17/2014	Bob Duffey

LM Start	2.63	Rating **	М	Issue No.	3		
LM End	2.63	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee	GPS Latitude/Longitude				
Calegory				Start End			
Item	Encroachments			39.03140)5 °	39.031405°	
пеш				-121.82340)3 °	-121.823403 °	
DWR ID	DWR_RD1	660_01_s _ 201	2_3				
	Action/Comments						
Equipmen	t						



View of equipment along the landside slope.

LM Start	2.67	Rating **	М	Issue No.		178	
LM End	2.67	Issue Type +	En	Location *		LS	
Category			GPS Latitude/Longitude				
Calegory				Start		End	
ltom	DWR UC	P Field Study		39.0309	35 °	39.030935	0
Item			-121.8230	22 °	-121.823022	0	
DWR ID	DWR_RD1	660_01_s _ 201	4_178				

Action/Comments

Inspector Comments: FS_ID:22632

EP_NO: 10012 Repair Type: Crossing Status:

UCIP Comments: - abandoned pumphouse on landside toe. Needs confirmation from LMA or DWR Inspector about abandonment of pumphouse.headwall on channel bank.

FIELD_STRUCT_DESC: 24-inch steel pipe through levee, 24 feet below crown. Slide gate on waterward shoulder. Abandoned pumphouse at landward slope. (ABO No. 10012-Harris)

FS Date: 10/10/2013



LS view: abandoned pumphouse on levee toe.

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	04/17/2014 04/17/2014	Bob Duffey

LM Start	2.68	Rating **	М	Issue No.		5	
LM End	2.71	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS Latitude/Longitue			
Calegory				Start		End	
Item	Slope Stability		39.030891 °		39.030436 °		
Item				-121.822956 °		-121.822617 °	
DWR ID	WR ID DWR_RD1660_01_s _ 2012_5						
Action/Comments							
Repair slo	pe instabili	ty.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown ** Rating

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Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles
Unit No. 02 Sutter Bypass	Right	9.14

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/17/2014 - 04/17/2014			
DWR Inspector	Bob Duffey			
Accompanied By	Andy Duffey			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.14	04/17/2014 04/17/2014	Bob Duffey

LM Start	5.07	Rating **	С	Issue No.		6	_
LM End	5.07	Issue Type +	En	Location *		WS	
Category	Earthen L	evee		GPS La	le/Longitude		
Calegory				Start End			
Item	Animal Co	ontrol		39.102052		39.102052	0
пеш				-121.77447	77 °	-121.774477	0
DWR ID DWR_RD1660_02_s _ 2012_6							
Action/Comments							

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

No Photos

LM Start	5.12	Rating **	М	Issue No.		181
LM End	5.12	Issue Type +	En	Location *		WS
Category	Suppleme	ental		GPS La	titud	le/Longitude
Calegory		Start		Start		End
Item	DWR UC	IP Field Study		39.10251	2 °	39.102512
пеш				-121.77496	° 0	-121.774960
DWR ID	DWR_RD1	660_02_s _ 201	4_181			

Action/Comments

Inspector Comments: FS_ID:22705

EP_NO: N/A Repair Type: Crossing Status:

UCIP Comments: Pressure relief valve on landside levee slop@ump platform under construction for upgrade (raising platfornt)ook for new upgrade/revision permit.

FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 5.8 feet below crown. Pump in channel. Gate valve on the landward berm. Discharges into 4-foot by 4 foot concrete box on the landward berm. 2-inch electric conduit through the levee, 3.0 feet below the crown.

Application no. 4215. FS Date: 10/15/2013



WS view: pump platform under construction. 18" steel pipe and 2" electric conduit under steel platform.

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.14	04/17/2014 04/17/2014	Bob Duffey

LM Start	5.13	Rating **	Α	Issue No.		182	
LM End	5.13	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitud			
Calegory				Start		End	
Item	Vegetation		39.102779 °		39.102779 °		
item				-121.7752	60 °	-121.775260 °	
DWR ID DWR_RD1660_02_s _ 2014_182							
Action/Comments							
Control annual grass and weeds on the levee slopes and easements.							



View of the native grasses on both slopes.

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

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